BRUHAT BANGALORE MAHANAGARA PALIKE
Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bangalore - 64

APPROVED SCHEDULE - 'B'

Name of Work: Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka Satellite Town Sub division

Sl	Description	Unit	Approved Quantity	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate In Words
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. (Page No 143 Item no 19.1of KPWD SR Bangalore Circle (2018-19) Lead 5km	Cum	715.53	211.79	Rupees Two Hundred Eleven And Paise Seventy Nine Only
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. (Page No 254 Item no 34.1of KPWD SR Bangalore Circle (2018-19)	Cum	126.60	4479.56	Rupees Four Thousand Four Hundred Seventy Nine And Paise Fifty Six Only
3	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 (Page No 229 Item no 28.8.2 of KPWD SR Bangalore Circle (2018-19)	Tonne	13.77	72326.98	Rupees Seventy Two Thousand Three Hundred Twenty Six And Paise Ninety Eight Only
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (Page No 271 Item no 37.59.2 of KPWD SR Bangalore Circle (2018-19)	Cum	227.19	7070.20	Rupees Seven Thousand Seventy And Paise Twenty Only

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	Description	Unit	Approved Quantity	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate In Words
	...ing and fixing precast reinforced concrete slab ... thick of mix M20 using 20mm and downsize ...ded granite metal using reinforcement 10mm dia ...eel at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc. complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials (Data Rate enclosed)	Sqm	592.02	2337.00	Rupees Two Thousand Three Hundred Thirty Seven Only
6	Providing and laying Pre Cast Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete as per drawingand direction of Engineer-in-charge of work (Data Rate enclosed)	Sqm	8.76	5418.00	Rupees Five Thousand Four Hundred Eighteen Only
7	Providing and fixing Pre cast solid concrete kerb stones of size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. (Page No 27 Item no 5 29.1 of KPWD SR Bangalore Circle (2018-19)	Nos	1476.00	477.00	Rupees Four Hundred Seventy Seven Only
8	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per pecifications. MORTH Chapter 8 (Page No 180 Item no 24.1 of KPWD SR Bangalore Circle (2018-19)	Sqm	199.85	84.80	Rupees Eighty Four And Paise Eighty Only
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 (Page No 143 Item no 19.14 of KPWD SR Bangalore Circle (2018-19) Lead 5km	Cum	2733.03	57.03	Rupees Fifty Seven And Paise Three Only
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (Page No 143 Item no 19.64 of KPWD SR Bangalore Circle (2018-19)	Sqm	8065.50	6.36	Rupees Six And Paise Thirty Six Only
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page No 153 Item no 20.6 of KPWD SR Bangalore Circle (2018-19)	Cum	1209.83	1855.00	Rupees One Thousand Eight Hundred Fifty Five Only

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	Description	Unit	Approved Quantity	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate In Words
	M400-17. Providing, laying, spreading and pacting cushed stone aggregates of granite / trap / salt to wet mix macadam specifications including pre ixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406. (Page No 155 Item no 20.18 of KPWD SR Bangalore Circle (2018-19)	Cum	1814.74	2001.28	Rupees Two Thousand One And Paise Twenty Eight Only
3	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision (Page No 158 Item no 21.6 of KPWD SR Bangalore Circle	Sqm	8065.50	29.68	Rupees Twenty Nine And Paise Sixty Eight Only
4	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision (Page No 158 Item no 21.7 of KPWD SR Bangalore Circle (2018-19)	Sqm	8065.50	12.72	Rupees Twelve And Paise Seventy Two Only
5	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision. using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (Page No 160 Item no 21.17.6 of KPWD SR Bangalore Circle (2018-19)	Cum	403.28	6858.20	Rupees Six Thousand Eight Hundred Fifty Eight And Paise Twenty Only
6	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(Page No 171 Item no 21.78.12 of KPWD SR	Cum	241.97	8049.64	Rupees Eight Thousand Forty Nine And Paise Sixty Four Only

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	Description	Unit	Approved Quantity	Approved Rate Technical Manager (West) KRIDL, BBMP,	
				Rate	Rate In Words
	3 M800-13 Road Marking with Hot Applied rmoplastic Compound with Reflectrising Glass eads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 182 Item no 24.15 of KPWD SR Bangalore	Sqm	333.75	454.74	Rupees Four Hundred Fifty Four And Paise Seventy Four Only
18	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. (Page No 187 Item no 24.41	Nos	480.00	357.22	Rupees Three Hundred Fifty Seven And Paise Twenty Two Only

Signature of Contractor

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